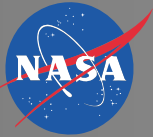


Technology Infusion Working Group Feedback

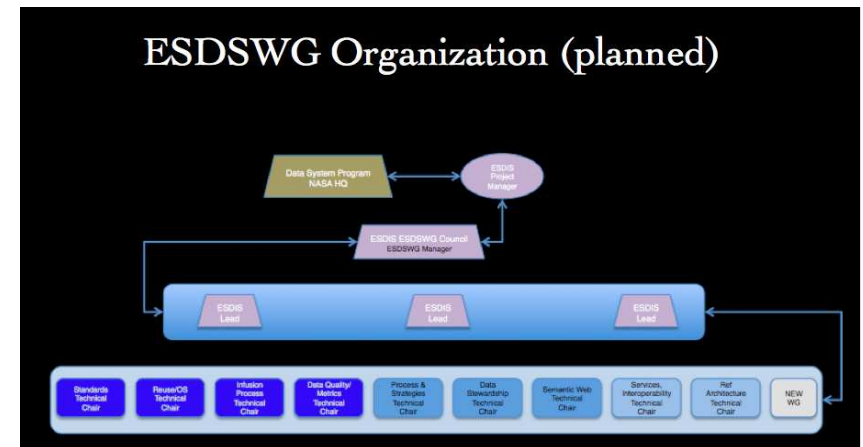
**Earth Science Data Systems Working Group Meeting
November 3, 2011
Newport News, VA**

**Working Group Co-Chairs:
Karen Moe, NASA/ESTO
Brian Wilson, NASA/JPL**

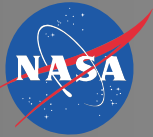


TIWG Feedback on Flattening ESDSWG

- Suggest taking next few months to transition
 - Infusion Planning?
 - Promote Data Stewardship to WG
 - Retire Processes & strategies?
 - Recast SIO/Services Interop to Technology Interoperability WG
 - Merge Semantic Web into Interop?
 - Or evolve to Semantic Tech WG?
- Continuing Need for cross-WG coordination
 - Articulating ESDS user challenges, assessing emerging technology, doing gap analysis, identifying low-hanging fruit solutions
- Options
 - Future role for Infusion Planning WG?
 - Move functions to cross-WG Ref Architecture WG?
 - Create a new brainstorming/think tank forum?

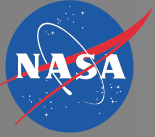




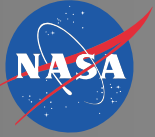


Proposal for Earth Science Data Systems Technology Colloquium

- Monthly, 1-2 talks via WebEx
 - Modeled after successful ESIP Information Technology and Interoperability Committee rants
- Goal: disseminate info about new / useful technologies throughout ESDSWG
- Advertise to include full ESDS community
 - Data Centers
 - Missions
 - ACCESS & Measures
 - Other interested organizations as appropriate
- Curated by Colloquium Committee

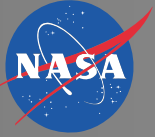


- Breakout summary
 - NASA Version of PCCS
 - Rama presented status and timeline
 - Question on the table is whether ESDSWG should review and/or submit a tech note to SPG
 - What is NASA doing with DOIs
 - John Modes presented plans re DOIs
 - Very many questions about the process – many of which are unresolved
 - Only 3 minutes remain for planning



Data Stewardship

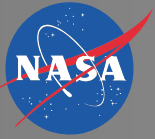
- Consensus was that Data Stewardship should be its own working group.
 - Over 20 people expressed interested in joining
- Planning for upcoming chair
 - Need to develop charter
 - Select chair
 - Develop rest of plan for the year



Process & Strategies

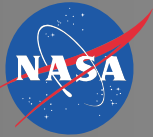
Role going forward is TBD:

- **Emphasis areas we've covered that are not covered by others:**
 - Capability Vision: at plateau now, but benefits from occasional maintenance
 - Technology Infusion – periodically identify, assess what's new, relevant, esp. noteworthy
 - Technology Readiness Levels
 - Focus on synthesizing, consolidating key Best Practices
- **Issue: how best to partition coverage of these areas, assuming we retain them?**

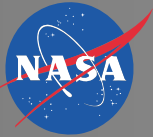


SIO 2012 Feedback

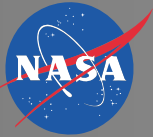
- **Reorganization**
 - Want joint meetings/telecons for general TIWG topics. Not full WG which creates barriers and overhead.
 - Strawpoll of those in room: Most but not all want to merge semantic web with interoperability. TBD.
 - One person suggested renaming SIO to Technology Interoperability Working Group (TIWG)
- **Concerns**
 - DAACs and Mission Projects should have funded representatives at telecons?
 - Desire for more community input
- **Goals**
 - Foster more interoperability. Have a look at Interoperability Readiness Level.
 - Identify actionable recommendations to advance interoperability
 - Facilitate more infusion of interoperability technologies



- Potential Activities
 - Semantic technologies
 - Addressing Pain Points
 - Collection of DAAC User WG pain points
 - Some joint effort ideas
 - Identifiers for everything
 - Standards and implementations
 - Reference Architecture
 - Provenance
 - NASA-focused Discovery. Write RFC for SPG.
 - Capability/Technology/Strategies concept mapping
 - Impact nuggets: does not necessarily have to be a tangible products.



- Intro. to Semantic Web (orientation for “newbies”)
 - See tutorial materials on the ESIP Cluster page
- Discussion of the technology stack
 - Triple stores, SPARQL query servers, reasoners, rules
 - What’s missing?
 - What should be target for the testbed and future tutorials?
- On-going work (sub-group & Cluster)
 - Organizing demos for Jan. 2012 ESIP Federation meeting
 - Ontology development: preservation, provenance
- Planning for 2012
 - Should Semantics go forward as a Working Group?
 - What should be in the work plan? Deliverables?



- State of the Community
 - Mixture of beginners & advanced practitioners
 - Semantics part of many projects, maturing applications
 - But still a need for tutorials and a testbed to evaluate tools
- Should “Semantics” go forward as a Working Group?
 - Do we have enough leaders & workers for four Tech. WG’s?
 - Overlap between Sem. and Interoperability WG’s
 - Realignment of WG’s: Need to recruit more participants to tech.
- Develop Work Plan
 - Demo these capabilities . . . (e.g. smart search, data integration)
 - Develop/extend these ontologies . . . (e.g. preservation, provenance)
 - Formulate deliverables for a two-year “push”
- Semantic technologies need to be in our toolbox
 - Use sem. mediation, text understanding to solve interoperability problems